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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/754,487	01/09/2004	Larry W. Gatlin	03015/03UTL	6181
7590 11/09/2007 ROBERT W. STROZIER P.O. BOX 429			EXAMINER	
			BOYER, RANDY	
BELLAIRE, T	X 77402-0429		ART UNIT	PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
		•	11/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/754,487	GATLIN, LARRY W.				
Office Action Summary	Examiner	Art Unit				
	Randy Boyer	1797				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 O	october 2007.					
· —	, —					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	<u>:x рапе Quayle, 1935 C.D. 11, 49</u>	03 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1-35 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-35 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office Action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12 October 2007 has been entered.

Response to Amendment

- 2. Examiner acknowledges Applicant's response filed 12 October 2007 containing amendments to the claims and remarks.
- 3. Claims 1-35 are pending.
- 4. The previous rejections of claims 2 and 19 under 35 U.S.C. 112, first paragraph are withdrawn in view of Applicant's arguments and amendment to the claims.
- 5. The previous rejections of claims 1-27 under 35 U.S.C. 102(b) and/or 35 U.S.C. 103(a) are withdrawn in view of Applicant's arguments.
- 6. The previous rejections of claims 28-35 under 35 U.S.C. 102(b) are maintained.
- 7. New grounds for rejection of claims 1-27 under 35 U.S.C. 102(b) and 35 U.S.C. 103(a) are entered in view of newly discovered prior art. The rejections follow.

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Claim Rejections - 35 USC § 102 / 35 USC § 103

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office Action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office Action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 1-27 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Yon-Hin (EP 0882778 A2).
- 11. With respect to claims 1 and 18, Yon-Hin discloses contacting a fluid including noxious sulfur-containing species with an effective amount of a sulfur scavenging composition comprising substantially monomeric aldehyde-amine adducts formed from a reaction of a molar excess of an aldehyde or aldehyde donor and a secondary amine having at least one sterically bulk substituent (see Yon-Hin, page 4, Example 1).
- 12. With respect to claims 2-6, 19, and 23-26, Yon-Hin discloses the use of aldehyde and amine species to produce a sulfur scavenging composition (see Yon-Hin, page 4, Example 1; page 3, lines 12-58; and page 4, lines 1-8).

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- 13. With respect to claims 7 and 27, Yon-Hin discloses wherein the composition comprises a solution including a quantity of adducts and the remainder a solvent (see Yon-Hin, page 4, Example 1).
- 14. With respect to claims 8-17, Yon-Hin discloses wherein the fluid is *any* hydrocarbon stream (see Yon-Hin, Abstract; page 2, lines 3-5; and page 4, lines 9-13).
- 15. With respect to claims 20-22, Yon-Hin discloses wherein the adding step may be continuous, intermittent, or periodic (see Yon-Hin, page 4, lines 13-16; and Example 4).
- 16. Claims 28-35 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Weers (EP 0475641 A1).
- 17. With respect to claims 28 and 29, Weers provides an inherent disclosure for contacting a sulfur scavenging composition in a container. Weers does not explicitly disclose use of a "container." Nevertheless, the person having ordinary skill in the art would recognize from Weers' disclosure that use of some sort of container is necessary to hold the sulfur-containing hydrocarbon to be treated by the sulfur scavenging composition. Likewise, the person having ordinary skill in the art would recognize that the sulfur scavenging composition could be added (or "contacted") with the hydrocarbon either prior to, after, or at the same time as adding the hydrocarbon to the "container."
- 18, With respect to claim 30, Weers discloses a sulfur scavenging composition comprising a solution including from about 5 wt.% to about 50 wt.% of the adducts, the remainder being a solvent (see Weers, page 5, lines 57-58).

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19. With respect to claim 31, Weers discloses contacting a sulfur scavenging

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composition with a hydrocarbon containing hydrogen sulfide (see Weers, page 5, lines

53-54).

20. With respect to claims 32-34, Weers provides an inherent disclosure for

introduction of a sulfur scavenging composition via a chemical tool, coiled tubing, or

capillary coiled tubing (CCT). Weers does not provide an explicit disclosure for the

means by which the sulfur scavenging composition is added to the sulfur-containing

hydrocarbon to be treated. Nevertheless, the person having ordinary skill in the art

would recognize that any suitable means could be used, be it by pouring (i.e. "batch

introducing step"), by pumping the composition through a pipe, or other "chemical tool,"

"coiled tubing," or "capillary coiled tubing (CCT)."

21. With respect to claim 35, Weers discloses a sulfur scavenging composition

comprising a solution including from about 5 wt.% to about 50 wt.% of the adducts, the

remainder being a solvent (see Weers, page 5, lines 57-58).

Response to Arguments

22. Applicant's arguments filed 12 October 2007 have been fully considered but they

are not persuasive.

23. Examiner notes that Applicant's arguments with respect to claims 1-27 are moot

in view of the new grounds of rejection.

24. With respect to claims 28-35, Examiner understands Applicant's principal

argument to be:

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1. The method of claims 28-35 is novel and non-obvious over Weers (EP 0475641 A1) because the compositions (as claimed by Applicant) are novel and non-obvious over Weers.

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- II. The CAFC has made it clear that a method practiced with a patentable composition is per se patentable.
- 25. With respect to Applicant's first argument, Examiner notes that independent claims 28 and 31 do not incorporate all the limitations of independent claims 1 and/or 18. Specifically, Examiner notes that claims 1 and 18 as currently amended specify the reaction of an "aldehyde or aldehyde donor" and a "secondary amine" (emphasis added). In contrast, claims 28 and 31 merely specify the reaction of an "aldehyde or aldehyde donor" and "at least one amine." Thus, claims 28 and 31 do not require the amine to be a secondary amine. In this regard, Examiner notes that Weers discloses the use of secondary amines (see Weers, page 4, lines 21-22). Therefore, Applicant's argument is unpersuasive because the patentability of neither the composition nor the method for using the composition has been established.
- 26. With respect to Applicant's second argument, the argument is most because patentability of neither the composition nor the method for using the composition has been established. Moreover, Applicant does not cite any Federal Circuit case law to support such an argument.

Conclusion

27. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Boyer whose telephone number is (571) 272-

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7113. The examiner can normally be reached Monday through Friday from 8:00 A.M. to

5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

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supervisor, Glenn A. Caldarola, can be reached at (571) 272-1444. The fax number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RPB

Supervisory Patent Examiner

Technology Center 1700